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L1	1156	Popa.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L2	1461	707/501	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L3	633	707/501.1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
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L8	64	"multiple hyperlinks"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L9	876	multilink	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L10	1	"6253204".PN.	USPAT	OR	OFF	2005/11/23 13:12
L11	1	"6061783".PN.	USPAT	OR	OFF	2005/11/23 13:12
L12	1	"6035330".PN.	USPAT	OR	OFF	2005/11/23 13:12
L13	1	"6035330".PN.	USPAT	OR	OFF	2005/11/23 13:12
L14	1	"5764235".PN.	USPAT	OR	OFF	2005/11/23 13:12
L15	1	"5282207".PN.	USPAT	OR	OFF	2005/11/23 13:12
L16	4485	707/104	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12

L17	2	("6085199").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
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L20	206	mouseover or "mouse over" and menuhandler	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L21	2	("6230196").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L22	2	("6208995").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L23	1727	("dynamic HTML" or Javascript) and menu and links	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L24	25	"navigational menus"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L25	876	"multilink"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L26	6	"multilink" and hyperlink	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12

L27	64	"multiple hyperlinks"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
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L29	3853	menu and hyperlink	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L30	2	("6408296").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L31	1	"6253204".PN.	USPAT	OR	OFF	2005/11/23 13:12
L32	1	"6061783".PN.	USPAT	OR	OFF	2005/11/23 13:12
L33	1	"6035330".PN.	USPAT	OR	OFF	2005/11/23 13:12
L34	555	DHTML and menu	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L35	3803	"drop-down" and menu	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L36	87	"drop-down" and menu and (javascript and DHTML)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L37	2	("6182155").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L38	129	"navigation menus"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12

L39	2392	(Javascript or DHTML) and menu	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L41	510	(Javascript or DHTML) and menu and hyperlink and (URL or "electronic address")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L42	2	"5379424".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L43	2	"6208995".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
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L45	2	"5822539".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
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L47	2	"5873107".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L48	2	"5905991".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L49	2	"5987482".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12

L50	2	"6122647".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L51	2	"6189019".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L52	2	"6356922".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L53	2	"6098081".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
L54	2	"6092074".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/23 13:12
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1 An architecture for packet-striping protocols   ■
   Adiseshu Hari, George Varghese, Guru Parulkar
   November 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 4
   Publisher: ACM Press

   Full text available: 📄 pdf(220.97 KB)   Additional Information: full citation, abstract, references, index terms, review

   Link-striping algorithms are often used to overcome transmission bottlenecks in computer
   networks. Traditional striping algorithms suffer from two major disadvantages. They
   provide inadequate load sharing in the presence of variable-length packets, and may result
   in non-FIFO delivery of data. We describe a new family of link-striping algorithms that
   solves both problems. Our scheme applies to any layer that can provide multiple FIFO
   channels. We deal with variable-sized packets by showing h ...

   Keywords: causal fair queuing, fair queuing, load sharing, multilink PPP, packet striping,
   stripe protocol, striping

2 Control procedures for data communication—an ASA progress report   ■
   Gerhard Salton
   February 1966 **Communications of the ACM**, Volume 9 Issue 2
   Publisher: ACM Press
   Full text available: 📄 pdf(952.30 KB)   Additional Information: full citation, abstract

   Sectional Committee X.3 of the American Standards Association, has charged one of its
   task groups, X3.3.4, with the responsibility to "Define and specify functional control
   requirements and characteristics governing the operation of digital data generating and
   receiving systems interconnected by communication system." This effort is primarily
   directed toward systems employing the American Standard Code for Information
   Interchange (ASCII). This paper represents a progr ...

3 Intersecting solids on a massively parallel processor   ■
   Michael Karasick, David Strip
   January 1995 **ACM Transactions on Graphics (TOG)**, Volume 14 Issue 1
   Publisher: ACM Press

   Full text available: 📄 pdf(2.36 MB)   Additional Information: full citation, abstract, references, index terms, review

Solid modeling underlies many technologies that are key to modern manufacturing. These range from CAD systems to robot simulators, from finite-element analysis to integrated circuit process modeling. The accuracy, and hence the utility, of these models is often constrained by the amount of computer time required to perform the desired operations. In this paper we present, in detail, an efficient algorithm for parallel intersections of solids using the Connection Machine, a massively paralle ...

Keywords: CAGD, grid data, hierarchical descriptions, spline surfaces, tensor product

4 Book review section: Review of "Data structures and programming techniques, by Herman H. Maurer", Prentice-Hall 1977.

E. R. Ashworth
December 1979 **ACM SIGIR Forum**, Volume 13 Issue 3
Publisher: ACM Press
Full text available: pdf(349.43 KB)   Additional Information: full citation, abstract

Professor Maurer's book has been translated into English by C. C. Price from the original Dataenstrukturen und Programmierverfahren. The text is based on the author's revised and expanded lecture notes. The four major topics are: A Model for the Manipulation of Data Structures, Lists, Trees, and Complex Data Structures. It concludes with an Index of Symbols, a Bibliography of 67 references, of which 79 percent are in English, and a Subject Index. In Addition, the translator had each segment of a ...

5 X.75 internetworking of Datapac and Telenet

Mehmet S. Unsoy, Theresa A. Shanahan
October 1981 **ACM SIGCOMM Computer Communication Review , Proceedings of the seventh symposium on Data communications SIGCOMM '81**, Volume 11 Issue 4
Publisher: ACM Press

Full text available: pdf(616.12 KB)   Additional Information: full citation, abstract, references, citings, index terms

In 1980, agreement was reached by CCITT defining a standard for the interconnection of public data networks. As a result, networks have been able to proceed with the establishment of international services using CCITT Recommendation X.75. This paper discusses the methodology used and the operating experience gained by the introduction of an X.75 interface between the GTE Telenet and Datapac public packet switching networks.

6 Post routing performance optimization via multi-link insertion and non-uniform wiresizing

Tianxiong Xue, Ernest S. Kuh
December 1995 **Proceedings of the 1995 IEEE/ACM international conference on Computer-aided design**
Publisher: IEEE Computer Society
Full text available: pdf(183.88 KB)   Additional Information: full citation, abstract, references, citings, index terms
Publisher Site

Most existing performance-driven and clock routing algorithms construct optimal routing topology for each net individually without considering its routability on the chip, so they can not guarantee performance after all nets are routed. This paper proposes a new approach for post routing performance optimization via multi-link insertion and non-uniform wiresizing, which improves the performance of a net topology obtained from a global routing solution. Unlike previous approaches, it can achieve ...

Keywords: post routing performance optimization, link insertion and wiresizing, delay,

delay skew, routing area

7 Comparison of access methods for time-evolving data

Betty Salzberg, Vassilis J. Tsotras

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: ⬛ pdf(529.53 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper compares different indexing techniques proposed for supporting efficient access to temporal data. The comparison is based on a collection of important performance criteria, including the space consumed, update processing, and query time for representative queries. The comparison is based on worst-case analysis, hence no assumptions on data distribution or query frequencies are made. When a number of methods have the same asymptotic worst-case behavior, features in the methods tha ...

Keywords: I/O performance, access methods, structures, temporal databases

8 Curriculum recommendations for graduate professional programs in information systems

May 1972 **Communications of the ACM**, Volume 15 Issue 5

Publisher: ACM Press

Full text available: ⬛ pdf(4.00 MB)   Additional Information: full citation, references, citings

Keywords: education, information analysis, information systems development, management information systems, management systems, system design, systems analysis

9 The schematic protection model: its definition and analysis for acyclic attenuating schemes

Ravinderpal Singh Sandhu

April 1988 **Journal of the ACM (JACM)**, Volume 35 Issue 2

Publisher: ACM Press

Full text available: ⬛ pdf(2.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The protection state of a system is defined by the privileges possessed by subjects at a given moment. Operations that change this state are themselves authorized by the current state. This poses a design problem in constructing the initial state so that all derivable states conform to a particular policy. It also raises an analysis problem of characterizing the protection states derivable from a given initial state. A protection model provides a framework for both design and analysis. Desi ...

10 An integrated test center for SL-10 packet networks

M. W. A. Hornbeek

September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4
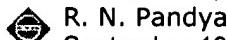
Publisher: ACM Press

Full text available: ⬛ pdf(742.99 KB)   Additional Information: full citation, abstract, references, index terms

The sheer scale and complexity of large data networks makes testing them a daunting

task. System commissioning, release acceptance, network troubleshooting, performance testing, host conformance testing, and certification are all operational activities that involve testing. Packet switching systems typically provide built-in features to help with hardware level test operations such as modem loopback commands, system failure alarms and system selftests. However, testing system and protocol I ...

11 Delay analysis for Datapac - a packet switched network with two priority classes

R. N. Pandya

September 1977 **Proceedings of the fifth symposium on Data communications**

Publisher: ACM Press

Full text available: pdf(581.35 KB)   Additional Information: full citation, abstract, references, index terms

Datapac is the public, packet-switched data communication network recently introduced into service by the Trans-Canada Telephone System. It supports two distinct categories of services - 'priority' and 'normal', where the priorities are user assigned. The delay performance for the Datapac services is specified in terms of the 'average delay' as well as '90th percentile delay' for priority and normal class packets. This paper presents some queueing models for estimating packet delays in the ...

12 End-to-end internet packet dynamics

Vern Paxson

June 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 3

Publisher: IEEE Press

Full text available: pdf(194.20 KB)   Additional Information: full citation, references, citings, index terms

Keywords: computer network performance, computer network reliability, computer networks, failure analysis, internet-working, stability

13 A strategy for synchronising simplex message streams

J. M. McCaig

January 1991 **ACM SIGCOMM Computer Communication Review**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(880.96 KB)   Additional Information: full citation, abstract, index terms

In information networks which, for example, employ satellites or LANs with broadcast or multi-cast capability, data flow is often simplex. Various quality of service improvements are possible by using redundant network capacity, which is intended for "fail-over", to carry duplicate message streams instead. This paper examines a strategy for synchronising message streams delivered via diverse but unreliable routes, and illustrates it with a Pascal procedure called Y.

Keywords: LAN bridging, broadcast, simplex

14 Expert design tools for physical database design

Rajiv Tewari

September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems**

Publisher: ACM Press

Full text available: pdf(926.35 KB)   Additional Information: full citation, references, index terms

15 <u>High-performance operating system primitives for robotics and real-time control</u>
<u>systems</u>
Karsten Schwan, Tom Bihari, Bruce W. Weide, Gregor Taulbee
August 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 3
Publisher: ACM Press

Full text available: <u>pdf(3.49 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

To increase speed and reliability of operation, multiple computers are replacing
uniprocessors and wired-logic controllers in modern robots and industrial control systems.
However, performance increases are not attained by such hardware alone. The operating
software controlling the robots or control systems must exploit the possible parallelism of
various control tasks in order to perform the necessary computations within given real-
time and reliability constraints. Such so ...

16 <u>Functional programming with graphs</u>
Martin Erwig
August 1997 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN**
international conference on Functional programming ICFP '97, Volume 32
Issue 8
Publisher: ACM Press

Full text available: <u>pdf(1.40 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

Graph algorithms expressed in functional languages often suffer from their inherited
imperative, state-based style. In particular, this impedes formal program manipulation.
We show how to model persistent graphs in functional languages by graph constructors.
This provides a decompositional view of graphs which is very close to that of data types
and leads to a "more fictional" formulation of graph algorithms. Graph constructors enable
the definition of general fold operations for graphs. We pres ...

17 <u>Fair-efficient call admission control policies for broadband networks—a game</u>
<u>theoretic framework</u>
Zbigniew Dziong, Lorne G. Mason
February 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 1
Publisher: IEEE Press

Full text available: <u>pdf(1.87 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>,
<u>review</u>

18 <u>Contact networking: a localized mobility system</u>
Casey Carter, Robin Kravets, Jean Tourrilhes
May 2003 **Proceedings of the 1st international conference on Mobile systems,**
applications and services MobiSys '03
Publisher: ACM Press

Full text available: <u>pdf(232.79 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

MobileIP, the standard for Internet mobility, enables transparent mobility for a mobile
node, but requires communication to take a multihop path through the node's Home
Agent. Although a user with a multiple-interface mobile node may desire the ability to
communicate locally, perhaps while disconnected from the Internet, MobileIP offers no
such support.Contact Networking provides lightweight, localized network communication
to a node with diverse network interfaces. The goal is to provide suppor ...

19 <u>Course and program descriptions</u>
T. A. Nartker

November 1970 **ACM SIGCSE Bulletin**, Volume 2 Issue 4
Publisher: ACM Press
Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references

> At the current time, there is intense interest in Computer Science Education within the academic community. Symposia have been and are being held (4), recommendations for degree programs have been made (1, 3), a special interest group within ACM (SIGCSE) is growing and discussion at national meetings is lively. Little information is available, however, on what specific curriculum are being offered. This report presents the curriculum leading to a Bachelor of Science degree in Computer Science wh ...

20 Poster Session: Constraint-based motion planning for virtual prototyping

Maxim Garber, Ming C. Lin
June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**
Publisher: ACM Press
Full text available: pdf(327.97 KB)   Additional Information: full citation, abstract, references, index terms

> We present a novel framework for motion planning of rigid and articulated robots in complex, dynamic, 3D environments and demonstrate its application to virtual prototyping. Our approach transforms the motion planning problem into the simulation of a dynamical system in which the motion of each rigid robot is subject to the influence of virtual forces induced by geometric constraints. These constraints may enforce joint connectivity and angle limits for articulated robots, spatial relationships ...

> **Keywords:** computational support for new manufacturing technologies, manufacturing and assembly planning, virtual environments and prototypes

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